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10/13/2000	FIRST NAMED INVENTOR	NAMED INVENTOR ATTORNEY	
	Craig C. Mello		CONFIRMATION NO.
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on P C		EVANA	
eet 110-2804		STRZELECKA, TERESA E	
		ART UNIT	PAPER NUMBER
		1656	8
	ASON 00 P.C.	10/13/2000 Craig C. Mello 00 11/16/2001 ASON on P.C.	### FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. 10/13/2000 Craig C. Mello 07917-105001 / UMMC 00-04 ### ASON On P.C. EXAMID EXAMID STRZELECKA ART UNIT Contract Co

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No.	Application			
		09/689,992	Applicant(s)			
	Office Action Summary		MELLO ET AL.			
		Examiner	Art Unit			
	The MAILING DATE of this communication app	Teresa E Strzelecka	1656			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address					
	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any Status					
	1) Responsive to communication(s) filed on					
	201 This					
	3) Since this application is in condition for all	action is non-final.				
	Since this application is in condition for allowand closed in accordance with the practice under Exposition of Claims	ce except for formal matters, pro c parte Quavle, 1935 C.D. 11, 45	secution as to the merits is			
1	· · · · · · · · · · · · · · · · · · · ·	7-1, 1000 0.5. 11, 40	3 O.G. 213,			
	4)⊠ Claim(s) <u>1-16</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration					
	is/are allowed.					
	6) Claim(s) is/are rejected.					
	7)☐ Claim(s) is/are objected to.					
	8) Claim(s) <u>1-16</u> are subject to restriction and/or elec	ction requirement				
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to but to 5						
	I am way not request trial any objection to the drawing (-) I do not not not not not not not not not no					
	Signature Sign					
	1 The state of the					
	The ball of declaration is objected to by the Examiner					
Priority under 35 U.S.C. §§ 119 and 120						
	13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
	Notice of:					
	1. Certified copies of the priority documents have been received.					
	Z. Certified copies of the priority documents have been received in Application to					
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the continuous.						
14	The state of a claim for domestic priority under 25 H.O.O. A.					
4	a) The translation of the foreign language provisional application has been received.					
T: Attac						
		- 3 5.5.5. 38 120 and/	UI 12],			
4) 🗀	1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Directory 2014 5) Notice of Interview Summary (PTO-413) Paper No(s).					
3) 🔲	Information Disclosure Statement(s) (PTO-1449) Paper No(s)	- P rouse of informal Patent,	Application (PTO-152)			
Patent and Trademark Office O-326 (Rev. 04-01)						

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DETAILED ACTION

Election/Restriction

- Restriction to one of the following inventions is required under 35 U.S.C. 121: 1.
 - I. Claims 1-3, drawn to an isolated nucleic acid encoding an RDE-1 polypeptide, classified in class 536, subclass 23.1, for example.
 - II. Claim 4, drawn to a substantially pure RDE-1 polypeptide, and a method of preparing an RNAi agent by incubating dsRNA in the presence of RDE-1 and RDE-4 polypeptides, classified in class 530, subclass 350, and class 435, subclass 6, for example.
 - III. Claim 5, drawn to an antibody to the RDE-1 polypeptide, classified in class 530, subclass 387.1, for example.
 - IV. Claims 6 and 7, drawn to a method of enhancing expression of a transgene in a cell, comprising decreasing activity of the RNAi pathway, classified in class 435, subclass 440, for example.
 - V. Claims 8-10, drawn to an isolated nucleic acid encoding an RDE-4 polypeptide, classified in class 536, subclass 23.1, for example.
 - VI. Claim 11, drawn to a substantially pure RDE-4 polypeptide, classified in class 530, subclass 350, for example.
 - VII. Claim 12, drawn to an antibody to the RDE-4 polypeptide, classified in class 530, subclass 387.1, for example.
 - VIII. Claims 14-16, drawn to a method of inhibiting activity of a gene by introducing an RNAi agent into a cell, classified in class 435, subclass 440.
- The inventions are distinct, each from the other because of the following reasons: 2.

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3. Inventions I and II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the polynucleotide of Group I could be used in an entirely different method, such as in a method of detection of the polynucleotide in a sample, rather than in a method of making the polypeptide of Group II.

- 4. Inventions I and (III, VI and VIII) are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the polynucleotide of Group I, polypeptide of Group VI and the antibodies of Groups III and VII have different functions and different modes of operation.
- 5. Inventions I and (IV and VIII) are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the polynucleotide of Group I and is not required for the methods of Groups IV and VIII.
- 6. Inventions I and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the polynucleotides of Group I and the polynucleotides of Group V encode different proteins with different functions and different modes of operation.
- 7. Inventions II and III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as

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claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the polypeptide of Group II could be used for an entirely different purpose such as in the method of Group VIII, rather than for the production of antibodies of Group III.

- 8. Inventions II and (IV and VIII) are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the polypeptide of Group II and is not required for the methods of Groups IV and VIII.
- Inventions II and (V-VII) are unrelated. Inventions are unrelated if it can be shown that they 9. are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the polypeptide of Group II, polynucleotide of Group V, polypeptide of Group VI and the antibody of Group VII have different functions and different modes of operation.
- Inventions III and (IV and VIII) are unrelated. Inventions are unrelated if it can be shown 10. that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the antibody of Group III and is not required for the methods of Groups IV and VIII.
- Inventions III and (V-VII) are unrelated. Inventions are unrelated if it can be shown that 11. they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the antibody of Group III, polynucleotide of Group V, polypeptide of Group VI and the antibody of Group VII have different functions and different modes of operation.

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Inventions IV and (V-VII) are unrelated. Inventions are unrelated if it can be shown that 12. they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the polynucleotide of Group V, polypeptide of Group VI and the antibody of Group VII are not required for the method of Group IV.

- Inventions IV and VIII are unrelated. Inventions are unrelated if it can be shown that they 13. are not disclosed as capable of use together, or they have different modes of operation, or they have different functions, or they have different effects. (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are directed to methods which have different method steps, starting materials and goals.
- Inventions V and VI are related as product and process of use. The inventions can be shown 14. to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the polynucleotide of Group V could be used in an entirely different method, such as in a method of detection of the polynucleotide in a sample, rather than in a method of making the polypeptide of Group VI.
- Inventions V and VII are unrelated. Inventions are unrelated if it can be shown that they are 15. not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the polynucleotide of Group V and the antibody of Group VII have different functions and different modes of operation.

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Inventions V and VIII are unrelated. Inventions are unrelated if it can be shown that they 16. are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the polynucleotide of Group V is not required for the method of Group VIII.

- 17. Inventions VI and VII are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the polypeptide of Group VI could be used for an entirely different purpose such as in the method of Group II, rather than for the production of antibodies of Group VII.
- Inventions (VI, VII) and VIII are unrelated. Inventions are unrelated if it can be shown that 18. they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the polypeptide of Group VI or an antibody of Group VII are not required for the method of Group VIII.

Sequence Election Requirement Applicable to All Groups

In addition, Groups I and V detailed above read on patentably distinct Groups drawn to multiple SEQ ID Numbers. The sequences are patentably distinct because they are unrelated sequences, and a further restriction is applied to each Group. For an elected Group drawn to amino acid sequences, the Applicants must further elect a single amino acid sequence. For an elected Group drawn to nucleotide sequences, the Applicants are permitted to elect a single nucleic acid sequence (See MPEP 803.04).

MPEP 803.04 states:

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Nucleotide sequences encoding different proteins are structurally distinct chemical compounds and are unrelated to one another. These sequences are thus deemed to normally constitute independent and distinct inventions within the meaning of 35 U.S.C. 121. Absent evidence to the contrary, each such nucleotide sequence is presumed to represent an independent and distinct invention, subject to a restriction requirement pursuant to 35 U.S.C. 121 and 37 CFR 1.141 et seq. Nevertheless, to further aid the biotechnology industry in protecting its intellectual property without creating an undue burden on the Office, the Commissioner has decided sua sponte to partially waive the requirements of 37 CFR 1.141 et seq. and permit a reasonable number of such nucleotide sequences to be claimed in a single application. See Examination of Patent Applications Containing Nucleotide Sequences, 1192 O.G. 68 (November 19, 1996).

It has been determined that normally ten sequences constitute a reasonable number for examination purposes. Accordingly, in most cases, up to ten independent and distinct nucleotide sequences will be examined in a single application without restriction. In addition to the specifically selected sequences, those sequences which are patentably indistinct from the selected sequences will also be examined. Furthermore, nucleotide sequences encoding the same protein are not considered to be independent and distinct inventions and will continue to be examined together.

- 19. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and the necessity for noncoextensive literature searches, restriction for examination purposes as indicated is proper.
- Applicant is advised that the reply to this requirement to be complete must include an 20. election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- Applicant is reminded that upon the cancellation of claims to a non-elected invention, the 21. inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Teresa E Strzelecka whose telephone number is (703) 306-5877. The examiner can normally be reached on M-F (8:30-5:30).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

W. Gary Jones can be reached at (703) 308-1152. The fax phone numbers for the organization

where this application or proceeding is assigned are (703) 308-4242 for regular communications

and (703) 305-3014 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0196.

November 14, 2001

KENNETH R. HORLICK
PRIMARY EXAMINER 11/15/01
GROUP 1800

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